Approved For Release 2008/07/18 : CIA-RDP80-00810A006200150008-2 CENTRAL INTELLIGENCE AGENCY REPORT NO. INFORMATION REPORT CD NO. 25X1 COUNTRY 26 April 1955 DATE DISTR. East Germany SUBJECT NO. OF PAGES Signal Equipment of the KVP Signal g Regiment in Niederlehme PLACE NO. OF ENCLS. 25X1 **ACQUIRED** (LISTED BELOW) DATE OF SUPPLEMENT TO INFO. REPORT NO. THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES, WITHIN THE MEANING OF TITLE 15, SECTIONS 753 AND 754, OF THE U.S. CODE, AS AMENDED. IT REASEMISTION OR REVELLED OF THE CONTENTS TO OR RECEIPT BY AN UNAUTHORIZED FENSON INFORMATION OF THE REPRODUCTION OF THIS FORM IS PROMISTED. 25X1 THIS IS UNEVALUATED INFORMATION

- 1. In early 1954, radio operators and radio mechanics of the signal 25X1 regiment stationed in Niederlehme were assigned to a special testing group for new radio sets. A first lieutenant from the Ministry of Interior and First Lieutenant Kindermann (fnu), an officer of Dl-Kdo in Niederlehme, were chiefs of the testing group. Lieutenant Philipp was political officer. The group tested Soviet made KWM type receivers supplied by the Soviets and type Geo 1, Geo 2 and Geo 4 type German so-called "Geologengeraeta" (geologists instruments).
- 2. The receiver station equipped with 5 Soviet KWM type receivers operating with 10-meter mast antennas and 4-meter rod antennas was installed in an H 3 A type truck. The unit was difficult to operate. Lieutenant Kleiner (fnu) was commander in chief of the receiver station. In April 1954 the unit was transferred to the Pirna officers school for further experiments.
- The type Geo 4 "geologists stations" to be tested in Niederlehme had been produced by HV RFT (Main Administration for Radio and Telecommunication Techniques). The amplitude modulated transmitter unit had a power of 50 W for telegraphy and of about 10 W for telephony. The range telegraphic range achieved with the 10-meter mast antenna was about 150 km and for telephone range about 50 km. The scale of the transmitter unit carried the numbers 50 to 250 and the scale of the receiver the numbers 7 to 480. When multiplied by 25, these numbers indicated the frequency in kcl. These instruments were easily and quickly operated. Disadvantages involved were the fact that the transmitter could not be turned to the receiver and that the monitoring phase frequently failed to work.

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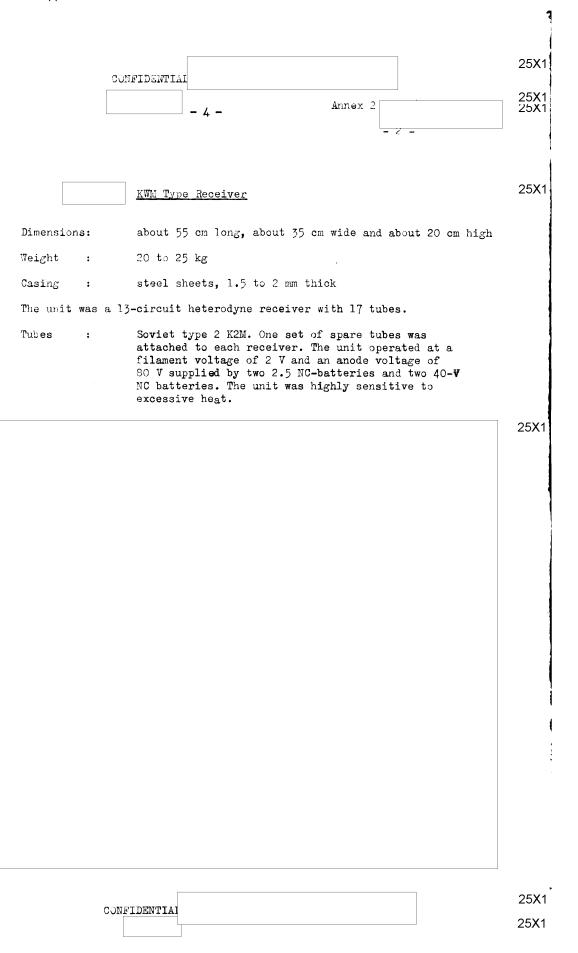
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4.	in a Phaenomen Granit-27	of the Geo 4 type stations was installed -type truck and another unit in a	
	charge of these stations 25 February 1954. The te Ministry of Interior. Th northern direction to St and the H 3 A carrying t	econd Lieutenant Leistner (fnu) were in The teleplasted from 2 February to sting produced been prepared by the emblored moved in ralsund, were prepared by the central resource station moved south ations were in connection with the	- (/ *)
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	ono Geo 4 stat	ion under the control of Lieutenant Michael (located in Object Niederlehme I	fnu)
	two portable r	eceivers located in Object Niederlehme I.	
	Mold	pleted, the Geo 4 set installed in the by an RSB type radio set, while the ained in the Phaenomen Granit 27.	<u></u>
5.	command of Second I to TV North, TV Sour connection to the HVsec called radio direction I belonged to TV North in in Leipzig and radio net hours, frequencies and t	and 2 respecting the twork 1 Pasewalk, radio network 2 to TV South work 3 to the KVPB in Potsdam. Operating the three-digit call signals were changed mation was obtained on the equipment	
6.	on 19 by 1954.	Transmitter notwerk and allegedly, that ien with one parabolic reflector was afternal in the Central Signal Workshop ior. The only other decimeter station aggelberge observation tower near Berlin.	
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H 3 A type Truck equipped with Five KWM Type Receivers, Used as	
Central Receiver Station	
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Phaenomen Granit 27 Type Truck equipped with a GEO 4 Type Trasmmitter	
and Receiver Unit	
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Antennas Used by the Signal Regiment Stationed in Niederlehme	1
Dipole of RBM radio set	25X1;
Dipote of REM Iddge etc	I
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Mast Antenna, 10 m high, for RSB (F) and GEO 4 type radio sets	25 X 1
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Rod antenna, 4 m long, mounted on top of a van by means of aluminum bayonet clutch	. (
means of arminimi bayones of acon	
Small antenna mast for portable sets. The mast, 1.8 m	25X1
high, was composed of 6 steel rods and carried a star on top, 60 cm in diameter, punched alumimum.	1
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Testing of GEO 4 Type Radio Sets During the Period 2 to 25 February 1954.

The units were tested on lines between stationary sets af Niederlehme and at the Ministry of Interior in Berlin and two mobile stations moving in the direction of Stralsund (Station North) and in the direction of Zittau (Station South) respectively.

The fundamental frequency was fixed wave 67 i.e. 1,575 kcl.

The collective call signal was "hgh" and the call signals of the Ministry of Interior were "bfz - Hobelbank." The other three-digit call signals, frequencies, basic records (radio net diagram and the tabulation of radio signals) were changed every day at 2400 hours. The average operating hours lasted from 0800 to 1700 hours.

The following results were obtained by Station South:

- a. The telephony and telegraphy connection obtained from Fuerstenwalde/Spree by means of a 4-m rod-antenna was satisfactory.
- b. With the 10-m mast antenna perfect telegraphic connections were established at Storkow, Beeskow, Lieberose, with Niederlehme and Station North located between Finow and Angermuende. First qrm by qra signals. (sic)
- c. The reception of radio messages at Spremberg-Hoyerswerda and Muskau was rated qsa 3 4 and qrm 2 3. (sic)
 The traffic was temporarily disrupted. There was no loss of equipment, although the dismantling of the mast was very difficult because the connection sleeves were frozen.
- d. On the way to Goerlitz the reception became continuously worse. Powerful gra signals occurred. Only very garbled messages were received from Station North located between Angermaande and Erenzlau. Inquiries remained without answer. The monitoring phase of the Geo 4 station failed. Frequency distortions of up to 50 kcl were observed.
- e. Radio traffic between Loebau and Berlin: qsa 3 at strong qrm. Station North was no longer heard.

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CENTRAL INTELLIGENCE AGENCY

REPORT INFORMATION REPORT

Regiment in Niederlehme

CD NO.

COUNTRY

East Germany

DATE DISTR.

26 April 1955

SUBJECT

Signal Equipment of the KVP Signal

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INFO.

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4.	For testing purposes one of the Geo 4 type in a Phaenomen Granit-27-type truck and an Molotov GAS type truck. 2 Lieutenant Kleiner and Second Lieutenant I charge of these stations. The tests lasted 25 February 1954. The testing program had Ministry of Interior. The Molotov GAZ radi northern direction to Stralsund, while the and the H 3 A carrying the central receive to Zittau. The mobile stations were in confollowing stationary units:	cother unit in a Leistner (fnu) were in I from 2 February to been prepared by the Le truck moved in Phaenomen-Granit-27 er station moved south	
	one Geo 4 station located in the in Berlin	Ministry of Interior	
	one Geo 4 station under the con- located in Ob	trol of Lieutenant Michael (ject Niederlehme I	(fnu)
	two portable receivers located :	in Object Niederlehme I.	
	After the tests were completed, the Geo 4 Molotov GAZ was replaced by an RSB type resecond Geo 4 station remained in the Phaer	adio set, while the	
5.	The central radio station in Niederlehme command of Second Lieutenant Michael estal to TV North, TV South, VdA, VPSee and the connection to the HVSee in Rostock and the called radio direction 1 and 2 respective belonged to TV North in Pasewalk, radio no in Leipzig and radio network 3 to the KVP hours, frequencies and the three-digit cal every 24 hours. No information was obtained employed.	clished radio connections KVPB in Petsdam. The e VdA in Cottbus were ly. Radio network 1 etwork 2 to TV South B in Potsdam. Operating ll signals were changed	
6.	On 19 May 1954 75 percent of the VP decimbeen completed. A terminal station with stationed at Object Niederlehme I near thof the Ministry of Interior. The only othe known was located on Mueggelberge observations.	one parabolic reflector was e Central Signal Workshop er decimeter station	
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Annex 1

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List of Radio Equipment of the Signal Regiment in Niederlehme

Battalion: Telephone and teletype equipment stored in the signal store of the detachment.

II Battalion: Equipment for the erection of telephone masts and for the construction of permanent field lines (FDL-Linien) to TV North in Pasewalk and of

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III Battalion:

9th Company: (radio company) High power radio sets

Authorized equipment: Five RAF type sets with a power of 400 W. Two receiver stations with KWM type receivers.

The equipment had not been received by 19 May 1954.

10th Company: (radio company) Medium and low power equipment to include the types

RSB (F)

RBM 1 GEO 2

GEO 1

GEO 4

No figures were available

ll th Company: (decimeter company)

Type RVG 902 decimeter sets with beam antennas produced by RFT Sachsenwerk in Radeberg/Saxony.

12th Company: (decimeter company)

Type RVG 903 decimeter sets with parabolic reflectors mounted on a lattice mast, 24 m high.

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·		KWM Type Receiver	e y systemsys	25X1-
Dimensio	ns:	about 55 cm long, about	35 cm wide and about 20 cm h	igh
Weight		20 to 25 kg		
Casing	1 .	steel sheets, 1.5 to 2	nm thick	
The unit	was a :	13-circuit heterodyne rece	iver with 17 tubes.	
Tubes	:	filament voltage of 2 V	er. The unit operated at a and an anode voltage of NC-batteries and two 40-V	
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Portable Receiver Unit of the Signal Regiment in Niederlehme The German made receiver unit equipped with eight D 191 type tubes tas still in a stage of development and was being tested with various types of antennas.	25
Portable Receiver Unit of the Signal Regiment in Niederlehme The German made receiver unit equipped with eight D 191 type tubes as still in a stage of development and was being tested with arious types of antennas.	
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Phaenomen Gra	nit 27 Type I	ruck equippe	d with a GEO 4	Type Trasmm	itter	
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Antennas Used by the Sigha	l Regiment St	ationed i	n Niederlehme	
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Dipole of REM radio set				25 X 1
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Mast Antenna, 10 m high, radio sets	for RSB (F)	and GEO 4	type	25 X 1
radio sera				
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Rod antenna, 4 m long,	mounted on to	op of a ve	n by	25 X 1
means of aluminum bayor	net clutch			
			•	
Small antenna mast for	nortable set	a. The mea	t. 1.8 m	25 X 1
high, was composed of	6 steel rode	and carrie	d a star	25/1
on top, 60 cm in diamet	ter, punched a	aluminum.		

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- c. The reception of radio messages at Spremberg-Hoyerswerds and Muskau was rated qss. 3. 4 and qrm 2 3. (sic)
 The traffic was temporarily disrupted. There was no loss of equipment, eithough the dismentling of the mast was very difficult because the connection aleges were frozen.
- d. On the way to Goerlitz the reception became continuously worse. Powerful are signals occurred. Only very garbled messages were received from Station North located between Angermuende and Prenzlau. Inquiries remained without answer. The monitoring phase of the Geo 4 station failed. Frequency distortions of up to 50 kcl were observed.
- e. Radio traffic between Loebau and Berlin: qsa 3 at strong qrm. Station North was no longer heard.
- f. Only fragmentary traffic was obtained at Zittau-Jonsdorf. (qrm 5 by qaa signals) Station North could temporarily be heard from Pasewalk.

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